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Fire extinguishing device - comprises flexible container contg. hydrated  
gel formed from synthetic high mol. wt. cpd. and water

Patent Assignee: SHOWA DENKO KK (SHOW )

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Abstract (Basic): JP 59189869 A

The device is obtd. by enclosing a powder of a synthetic high mol. wt. cpd. capable of forming a hydrated gel contg. large amts. of water when contacted with water into a flexible container having a water-resistant film impervious to the main portion of the powder but pervious to water.

The powder includes polymers or copolymers of acrylic acid, methacrylic acid, acrylates, methacrylates, acrylic acid amides, methacrylic acid amides, etc., the copolymers of such polymers with polysaccharides, three-dimensionally bridged polymers of the saponified prods. of the copolymers by using crosslinking agents (e.g., di or tri(meth)acrylates of polyols such as ethylene glycol, trimethylol propane, glycerine, etc., unsatd. polyesters from reaction of the polyols with an unsatd. acid such as maleic acid, etc., bis-acrylamide such as N,N-methylene-bis-acrylamide, di or tri(meth)acrylates from reaction of polyepoxides with (meth)acrylic acid, di(meth)acrylic acid carbamyl esters from reaction of polyisocyanates with hydroxyethyl (meth)acrylate, etc.). The container is made of a stretched film, woven fabric, etc. having the form of a triangular bag, etc.

USE/ADVANTAGE - The device easily absorbs large amts. of water to form solid hydrated gels and exhibits excellent fire-extinguishing effects for long periods of time without loss of water because of its large heat-insulating property. It is easily handleable and effective even for water sealing work, etc., for shutters, sand bags, dams, etc.

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